

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
10 July 2003 (10.07.2003)

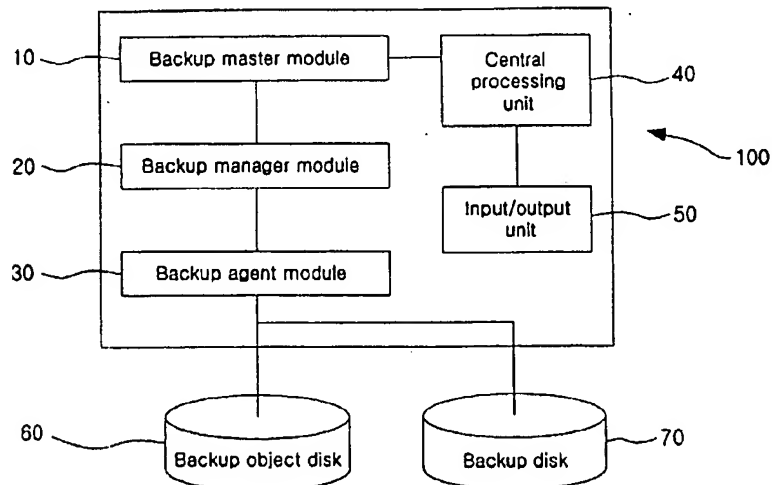
PCT

(10) International Publication Number
WO 03/056434 A1

- (51) International Patent Classification⁷: G06F 12/16 (74) Agent: MOON, Doo-Hyun; Haesung Bldg, 11F, 942, Daechi-dong, Kangnam-gu, Seoul 135-283 (KR).
- (21) International Application Number: PCT/KR02/00435
- (22) International Filing Date: 13 March 2002 (13.03.2002)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:
2002/0000477 4 January 2002 (04.01.2002) KR
- (71) Applicant (for all designated States except US): NCERTI CO. LTD [KR/KR]; 2nd Floor, Sammi Bldg, 1004, Daechi-Dong, Kangnam-Gu, Seoul 135-851 (KR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): PARK, Sung, Won [KR/KR]; Shinjungmaul 304-1003, 1018, Pungdukchon-Ri, Suji-Up, Youngin-Si, Kyonggi-Do 449-846 (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR HIGHSPEED AND BULK BACKUP



(57) **Abstract:** The present invention relates to a system and method for high-speed and bulk backup, and more particularly to a system and method for high-speed and bulk backup, wherein the data dispersed into a volume unit is set up, again divided into numerous units such as blocks to perform multi-processes that those units are compressed and transferred sequentially to different storage devices by a plurality of multiple threads, consequently, the time required for backup and recovery as well as the time required for data compression can be reduced as several flows are running simultaneously within a process, in a backup system for protecting the data stored on the storage unit to store the data within a system from disasters, defects, accidents, etc. According to the invention, since a bulk data can be transferred much faster, compared to conventional methods wherein a volume is compressed and transferred by a thread in charge, it has an effect that the time required for backup and recovery can be reduced substantially as well as the compression rate can be increased on a large scale.